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|             | POFESSUE-PARAS. M., Dr., CICRTFA, Gr., Iw. ICHICA, CTUTORIU, C.D., Er, VICR, C., Vaterinarien, ETU, Emarian. MARCEA, E., Veterinari m., JIVCIN, P., Er, Er, Er, Er, Er, Er, Er, Er, Er, Er | us., Veteri-<br>CAMBIR, S.,<br>"Pasteur"<br>tute (Ins-<br>Pasteur",<br>CONU, K.,<br>ry for Bio-<br>boratorul<br>Nedicamen-<br>e Central |                  |       |
| į           | "Improvement of Animal Tuberculosis Allergical Dis<br>Eumania by Single and Simultaneous Tests Using Pur<br>Tuberculine (PPD)."  | agnosis in<br>rifled  |                  |       |
|             | Eucharest, Revista de Zootchnie el Nedecina Veter<br>Vol 13, No 1, Jan 1923, pr 50-03.<br>1/2  | logra,  | en roan y lang g | <br>• |
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|          |     |             | Bucharest,<br>701 13, No   | Revista de Zost<br>1, Jan 1963, pp   | ohnie si Medec<br>50-65.   | ica Veterinora,   |     |            |   |
|          | , · | •           | maximals was and that for large-scale mitted the test with P allowed the cattle for fication of the fact thought thought though though | standardized to r hiras to 25,00 tests on epizo practical applic PD to cattle, pi introduction of two erculosis dis the tuberculin at only the animar reacting to the tropic of tropic of the tropic of tr | of a content of the carrier of the feation of the feation of the feation of the feation of the feations, and the carriers of the simultane feations, a feations, a feations, a feations, a feations, a feations. | 100,000 T.U./ml,<br>te results of<br>cont animals per-<br>dingle tuberculin | d i | a for some |   |
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## VOINOV, F., mayor

Let's promote and develop volunteer participation in the work of the Communist Youth League. Komm. Vooruzh. Sil 2 no. 17:77-82 (MIRA 15:8)

(Communist Youth League)
(Russia-Armed forces-Political activity)

# VOINOV, F., mayor Let's promote and develop volunteer participation in the work of the Communist Youth League. Komm. Vouruzh. Sil 2 no. 17:77-82 S'62. (MIRA 15:8' (Russia—Armed forces—Political activity)

USSR / Cultivated Plants. Fruit Trees. Small Fruit М Plants. Nut Trees. Tea.

: Ref Zhur - Biologiya, No 6, 1959, No. 25060 Abs Jour

Author : Voinov, G. Inst : Not given

Title : Large-Fruit Oleaster - A New Fruit-Bearing

Tree for the Steppe of Crimea

Orig Pub : Vinogradarstvo i sadovodstvo Kryma, 1958,

No 8, 22-23

: No abstract given Abstract

Card 1/1

Company of the Compan

VUINOV, G.A.

Effect of promedol on exidation-reduction processes in the nervous tissue. Report No.3: Effect of promedol on the dehydrogenage activity of the brain and on cytochrome oxidase. Trudy Oren. otd. Vses. fiziol. ob-va no.2:49-54'60. (MIRA 16:8)

(PROMEDOL) (OXIDATION, PHYSIOLOGICAL)

(BRAIN)

(MIRA 16:8)

VOINOV, G.V.; KULITSKIY, K.M.

Trees and shrubs in Feodosiya. Biul. Glav. bot. sada. no.49:
22-29 '63.

1. Feodosiyskoye obshchestvo okhrany prirody.
(Feodosiya—Trees) (Feodosiya—Shrubs)

VOINOY G.V.

Parks and gardens of Kerch. Biul. Glav. bot. sada no.55: 64-68 '64. (MIRA 18:11)

1. Obshchestvo okhrany prirody, Simferopol'.

Country : USSR

Category: Cultivated Plants. Potatoes. Vegetables. Melons. M

Abs Jour : RZhBiol., No 6, 1959, No 24913

Author : Voinov, G. V.

Inst : -

Title : Laser trilobum (L.) Borkh, as a Valuable Spice

Plant.

Orig Pub : Botan. zh., 1958, 43, No. 9, 1340

Abstract: Laser Trilobum is widespread in Crimea. Its seeds have been used long ago by the local population as a spicy ingredient under the name of "Chaman". At the present time it is not being used. It is widespread in Crimea, Bessarabia, the Baltic region and in the Kama forests. The author recommends the restoration of the Laser seeds use.

Card : 1/1

VOINOV, G.V.

Charaks Sanatorium park forest. Biul.Glav.bot.sada no.23:26-33 \*55.

1.Lesopark sanatoriya Kharaks. (MIRA 9:7)

(Yalta District--Forests and ferestry)

VOINOV, G.V.

Cork oak in Crimea. Biul.Glav.bot.sada no.14:84-86 '52. (MLRA 6:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gibridizatsii i akklimatizatsii zhivotnykh imeni akademika M.V. Ivanova v Askanii-Nova.

(Grimea--Cork tree) (Cork tree--Crimea)

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|--------------------------------|---|---|--|--------------------------------|----------------|----------|
|                                |   |   |  | PA 244738                      |                |          |
| 244T38                         | in this investigation, the conclusion was made that Heidelberg bacteria in regard to their pathogenicity for white mice occupy a place which is intermediate between Schottmueller's paratyphoid bacilli and Breslau bacilli. | Bacteria isolated from young children and adults suffering from diarrhea were found to belong to the paratyphoid B group and to the Heidelberg type. They proved to be pathogenic to white mice. The mature of the infection produced in white mice was investigated. On the basis of the data obtained | ol and Epidemiol  krobiol, Epidemiol, i Immunobiol" No | ous diseases delberg Infection |                |          |
| The same and readily acceptant |   |   | de la              | 1                              |                |          |

| caken  | Showed aid of ricket; tion is tive in  | PA 244,T49<br>년 - 유원년  | <br>g                         |
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| typhus. On the same group of pat 24 lutination reaction yielded position of the cases at sufficiently high 1:800). A negative reaction re-4% of the cases, when blood samplithe 8th-10th day of the disease. | ed by comparative diagnosis of typhus of the Weil-Felix reaction and the resttsiae agglutination that the Weil-Fi is ill-suited for this diagnosis: in 41% of the patients, particularly | "The Contemporary State of the Problem of Serum Diagnosis of Typhus," I. I. Voinov, Sverdlovsk Inst of Epidemiol and Microbiol "Zhur Mikrobiol, Epidemiol, i Immunobiol No 3, p 79 | USSR/Medicine - Typhus Mar 53 |

VOINOV, I.I.

Certain problems of epidemiology of epidemic hepatitis. Zhur.mikrobiol.epid.i immun. no.2:70 F '54. (MLRA 7:2)

1. Iz Sverdlovskogo instituta epidemiologii, mikrobiologii i gigiyeny. (Hepatitis, Infectious)

## AOANOA' I'I'

Degree of resistance of Heidelberg's paratyphoid bacilli to some factors of the external environment under laboratory conditions. Zhur. mikrobiol. epid. i immun. no.6:67 Je '54. (MIRA 7:7)

1. Iz Sverdlovskogo instituta epidemiologii, mikrobiologii i gigiyeny. (SALMONELLA PARATYPHI)

## VOINOV, I.I. Phenomenon of para-agglutination of Escherichia coli in diagnosing chronic dysentary. Author's abstract. Zhur.nikrobiol.epid. i immun. no.8:59 Ag '55. (MLRA 8:11) 1. Iz Sverdlovskogo instituta epidemiologii, mikrobiologii i gigiyeny (dir. G.F.Bogdanov) (DYSENTERY, BACILLARY, diagnosis, serol.para-agglut.phenomenon) (AGGLUTINATION, para-agglut.in diag. of bacillary dysentery)

DOSSER, Ye.M.; RAPOPORT, R.I.; YERMAKOVA, M.N.; VOINOV, I.I.; PLOTNIKOV, N.P.

AND THE RECOVERANT DESIGNATION OF THE PROPERTY OF THE PROPERTY

Results of transporting the renal cells of monkeys. Trudy Mosk. nauch.-issl. inst. virus. prep. 2:232-235 '61. (MIRA 17:1)

## VOINOV, I.I.

Duration of the preservation of parasgglutinant properties by parastrains of Escherichia coli under laboratory conditions. Zhur. mikrobiol., epid. i immin.40 no.9:136 S 163.

(MIBA 17:5,

VOINOV, I.I.

Obtaining a transplantable line of cell cultures from kidney tissue of human embryo and study of its sensitivity to standard strains of enteroviruses. Vop. virus. 10 no.1:100-102 Ja-F '65.

(MIRA 18:5)

1. Sverdlovskiy nauchno-issledovatel'skiy institut virusnykh infektsiy.

. VOINOV, I.I.

Obtaining a culture of transplantable cells of embryonal human lung tissue. Vop. virus 8 no.5:622-624 S-0'63 (MIRA 17:1)

1. Institut virusnykh infektsiy, Sverdlovsk.

VOINOV, I.I.

Dynamics of enteric microflora in dysentery patients during the scute phase and convalescence. Zhur.mikrobiol.eoid. i immun., supplement for 1956:17-18 '57 (MIRA 11:3)

1. Iz Sverdlovskogo instituta enidemiologii, mikrobiologii i gigiyeny.

(INTESTINES--BACTERIOLOGY) (DYSENTERY)

VOINCY, I.I VOINOV, I.I.; KISELEVA, L.F.; ABRAMOVA, F.A. Etiology of pneumonia in small children according to materials from

pathoanatomical autopsies. Pediatriia no.9:87 \$ '57. (MIRA 10:12)

1. Iz epidemiologicheskogo otdela Sverdlovskogo institute epidemiologii, mikrobiologii i gigiyeny Ministerstva zdravookhraneniya RSFSR. (PNEUMONIA) (AUTOPSY)

CIA-RDP86-00513R001860410013-7" APPROVED FOR RELEASE: 03/14/2001

VOINOV, I.N.; FILATOV, V.G.

Formations observed in the blood similar to Spirochaetae bovis caffris. Lab. delo 7 no.6:45-46 Je '61. (M.:A 14:7)

1. Parazitologicheskiy otdel Chelyabinskoy oblastnoy sanitarnoepidemiologicheskoy stantsii. (MICRO-ORGANISMS)

VOINOV, I.N.

Data on a study of herpetic diseases of the eye. Report no.1: Virological studies on the etiology of different forms of herpetic keratitis. Vop. virus. 8 no.1:76-79 Ja-F'63.

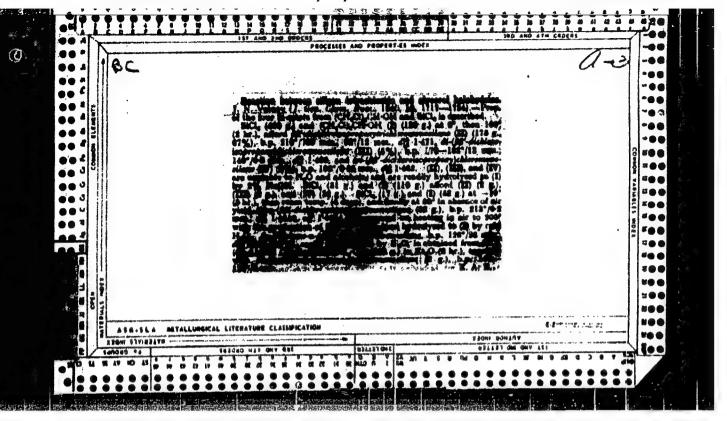
(MIRA 16:6)

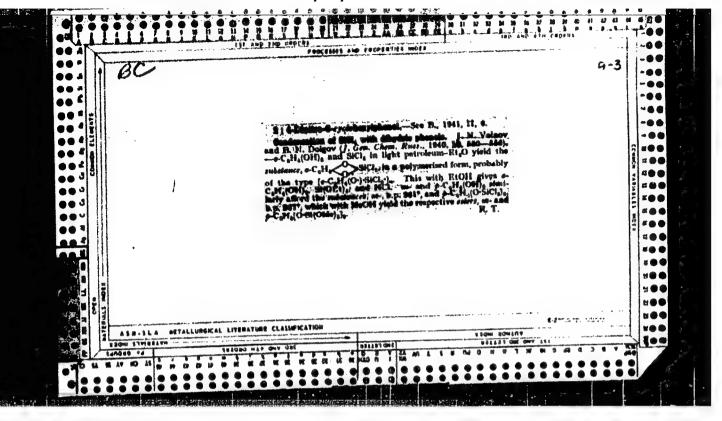
1. Chelyabinskiy meditsinskiy institut.
(GORKEA-DISEASES) (HERPES ZOSTER-MICROBIOLOGY)

KATSNEL'SON, A.B., prof.; VOINOV, I.N.; KAPLINA, K.P.

Studies on the etiology and pathogenesis of herpetic diseases of the eye. Vest.oft. no.3:61-67 My-Je 162. (MIRA 15:8)

1. Kafedra glaznykh bolezney (zav. - prof. A.B. Katsnel'son) i kafedra mikrobiologii (zav. - doktor med.nauk L.Ya. Ebert) Chelyabinskogo meditsinskogo instituta. (EYE--DISEASES AND DEFECTS) (HERPES)





LIVIY, G.V. [Livyi, H.V.], kand. tekh. nauk; PONOMAREV, S.G. [Ponomar'ov, S.H.], kand. tekhn. nauk; VONOV, I.P.; METS, M.M.; ERAGINSKIY, M.A. [Brahins'kyi, M.A.]; FL RESKIY, V.P. [Floryns'kyi, V.P.]

Device for determining the wear resistance of materials for shoe soles. Leh. prom. no.4:48-51 O-D '64 (MIRA 18:1)

PROKOP'YEVA, M.S.; PILYUSHENOK, S.V.; NIKOLAYEVA, R.I.; CHECHENKOVA, M.V.; MIKHAYLOVA, A.A.; STRELKOVA, A.V.; LOPUKHA, N.Ye; KOZLOV, F.N., red.; VOINOV, K.F., red.; BABESHKINA, N., tekhn. red.

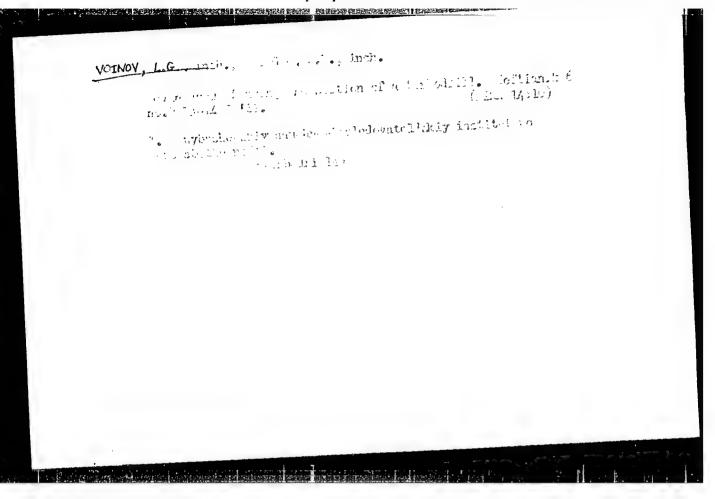
[Beconomy of Pskov Province; statistical collection] Narodnoe khoziaistvo Pskovskoi oblasti; statisticheskii sbornik. Leningrad, Gosstatizdat, 1960. 175 p. (MIRA 14:6)

1. Pskcv (Province) Statisticheskoye upravleniye.2. Rabotniki Statisticheskogo upravleniya Pskovskoy oblasti (for all
excapt Kozlov, Voinov, Babashkina). 3. Nachal'nik Statisticheskogo
upravleniya Pskovskoy oblasti (for Kozlov). 4. Zamestitel' nachal'nika Statisticheskogo upravleniya Pskovskoy oblasti (for Voinov)
(Pskov Province—Statistics)

USPENSKIY, G.N.; VOINOV, L.G.; SUTUGIN, P.K.

Operation of No. 9 bit in the drilling of deep wells at high working pressure. Trudy KNII NP no.17:3-11 '62.

(MIRA 17:8)



VOINOV, M., mayor, zamestitel' nachal'nika politotdela

"We are a close-knit family." Komm.Vooruzh.Sil l no.4:66-69
F'61.
(Russia--Army--Political activity) (Nationalities)

variety and intra-variety free repollination of "Vyatka" rye as methods for obtaining improved seeds." Mos, 1958. 16 pp (Mos Order of Lenin Agr Acad im K. A. Timiryazsv), 110 copies (KL, 18-58, 100)

-79-

USSR/Cultivated Plants - Grains.

M-2

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 29695

Author

: Voinov, M.I.

Inst

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Title

: Methods of Improving the Variety Characteristics of

Vyatka Winter Rye.

Orig Pub

: Selektsiya i semenovodstvo, 1957, No 1, 26-28.

Abstract

: At the Aleksandrovskaya Selection Station (in Vladimirs-kaya Oblast') a study was made of the effectiveness of pollinating Vyatka variety winter wheat with the Kazans-kaya, Lisitsina, Petkusskaya rye varieties, with a mixture of these varieties, as well as with a mixture of Vyatka reproduced strains cultivated under different conditions. The highest yield boost was obtained from the cross-pollination of Vyatka reproduced strains of different harvesting years (by 29%) and different places of origin (by 19%).

Card 1/2

USSR/Cultivated Plants. Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29695

It is noted that there is no need to change over to the production of improved Vyatka elite rye with the use of intervarietal hybridization.

Card 2/2

- 30 -

RUSANOV, A.I., kand.tekhn.nauk; GORDON, N.S.; VOINOV, M.I.

The SFM-200 straw stacker and FM-1,2 forager. Biul.tekh.eckc.
inform.Gos.nauch.-issl.inst.nauch.i tekh.inform 17 no.11:72-75
N 164.

(MIRA 18:3)

VOINOV, M.S.; KIRILLOV, G.N.; KOZIOVA, M.M.; CHZHAO, A.Ye. [Chao, A.N.];

ABRIKOSOVA, F.S., red.; AMBARTSUMYAN, Z.N., red.; VASILEVSKAYA,

V.A., red.; DROZDOVA, N.N., red.; ZHAK, D.K., red.; KESSENIKH, V.N.,

red.; KOPHLOVA, G.I., red.; LEVASHEVA, Z.P., red.; SMIRNOVA, B.A.,

red.; TIMOSHENKO, G.G., red.; KHRENKOVA, A.A., red.; KHELEMSKAYA,

L.M., tekhn. red.

[Catalog for district libraries] Katalog raionnoi biblioteki.

Sec.63. [Agriculture] Sel'skoe khoziaistvo. Izd.3., dop. i

perer. Moskva. 1957. 163 p. (MIRA 11:8)

1. Moscow. Publichnaya biblioteka.
(Bibliography--Agriculture)

VADIKOVSKAYA, L.M.; VOINOV. M.S.; KIRILLOY, G.N.; KOZLOVA, M.M.; CHZHAO, A.Ye.; SADOF'IKV, A.F., red.; VASIL'YEVA, L.P., tekhn.red.

[Animal husbandry; a recommended list of literature]
Zhivotnovodstvo; rekomendatel'nyi ukazatel' literatury.
Moskva, 1959. 241 p. (MIRA 12:9)

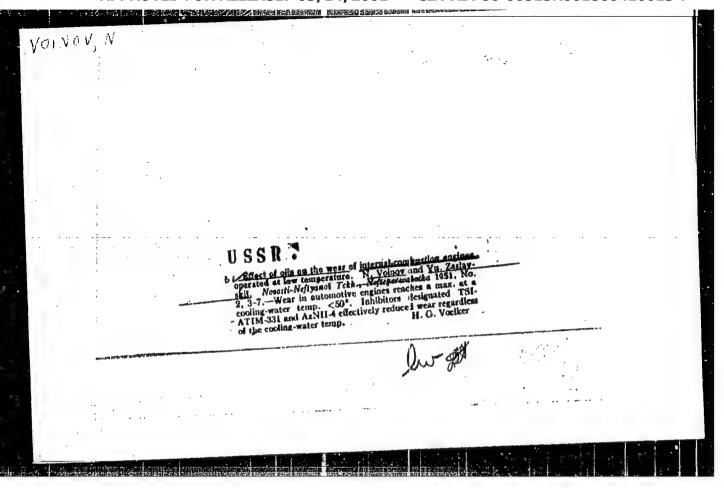
 Moscow. Publichnaya biblioteka. (Bibliography--Stock and stockbreeding)

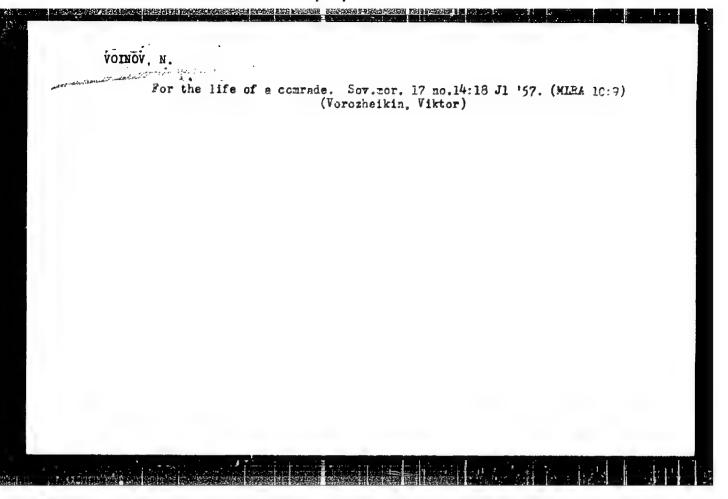
VOINOV, M.S., kandidat pedagogicheskikh nauk.

Reference book for scientific workers ("Bibliography of agricultur")

literature, 1783-1954" by N.M.Mikheev. Reviewed by M.S. Voinov). Nauka i pered.op. v sel'khoz. 7 no.8:78-79 '57. (MLKA 10.9)

1. Gosudarstvennaya biblioteka SSSR imeni V.I.Lenina (Bibliography--Agriculture) (Mikheev, H.M.)





VOINOV, N.

23562. ISPYTANIYA OTECHESTVENNYKH MNCGOFUNKTBICHAL NYKH PRISADCK K MASLAM NO MALOLITRAZHNOM DVIGATELE. AVTOMOBIL', 1949, No. 7, c. 10-11.

SO: LETOPIS' NO. 31, 1949

VOINOV, N.A.; SHCHUPAK, P.L.

Studying the dynamic qualities of tractors with supercharged diesel engines. Trakt. i sel'khozmash. nc.9:6-9 S '65. (MIRA 18:10)

l. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut (for Voinov). 2. Odesskaya nauchno-issledovatel'skaya ispytatel'naya stantsiya Gosudarstvennogo soyuznogo nauchno-issledovatel'skogo traktornogo instituta (for Shchupak).

ROZENBLYUM, S., arkhitektor; VOINOV, N., inzh.

Standard plans for two-story apartment houses in the 1-24 series.
Zhil. stroi. no.12:23-25 '61. (MIRA 15:2)

(Uzbekistan--Apartment houses)

WOINOV, N. V.

Kreyin, S. E., Zaślavskiy, Yu. S. and Voinov, N. F.

Machine Parts

Smazochnoe maslo i dvigatel'.

Moscow, Gosudarstvennoe Nauchno-Tekhnicheskoe Izdatel'stvo Neftyanoy
i Gorno-Toplivnoy Literatury, 1952.

Pp. 199, illus., diags., 23 x 17.

37937

S/089/62/013/001/002/012 B102/B104

21.1000

AUTHORS:

Kochenov, I. S., Voinov, N. L., Yershova, N. N.

TITLE:

Calculation and analysis of the thermodynamic cycle in an

atomic power plant

PERIODICAL:

Atomnaya energiya, v. 13, no. 1, 1962, 38-46

TEXT: As existing methods of calculating the optimum reactor parameters for atomic power plants are still defective a new method has been developed as here described. The parameters and the absolute internal efficiency of the thermodynamic cycle of an atomic power plant which efficiency coolant loops, a gas-cooled CO<sub>2</sub> reactor and two vapor-pressure includes two coolant loops, a gas-cooled CO<sub>2</sub> reactor and two vapor-pressure

stages in the second circuit, are calculated. The efficiency is determined as a function of the coolant temperature at the vapor generator inlet and outlet  $(T_1, T_7)$ , the temperature drops at the individual stages  $(\Delta_1)$ , the design of the regenerative preheater and the feed water temperature, the

design of the regenerative preheater and the feed water temperature, the pressure in the condenser turbine, the humidity content of the vapor and the relative internal efficiency of the turbine unit. Relations for the

Card 1/4 2

s/089/62/013/001/002/012 B102/B104

Calculation and analysis of the ...

Card 2/# <

quantity  $(G\eta_1/D)(I_{in}-I_{out})$  are arrived at each of the six sections (see Fig. 1), G and D being flow rates of the coolant and the working substance, whilst  $\eta_1$  takes account of the heat losses and I are the coolant enthalpies. For I(T) it is assumed that  $I = k_0 + k_1T + k_2T^2$ . equations of the i-s diagram and those describing the pressure drops are formulated. The required efficiency is calculated from the equation  $\eta_i = H_i(1 - \alpha_j y_j)/q_i$ , where  $H_i$  is the temperature drop,  $q_i$  the heat consumption per kg of vapor,  $\alpha_j$  are the vapor losses and  $y_j$  is the corresponding underproduction of energy. In addition, formulas are derived for the thermodynamic properties of water and water vapor which are well suited for numerical computations with electron computers. dependences of  $\eta_1$  on various parameters have been calculated by this means and the results are represented graphically; e.g.,  $\eta_i$  ( $\alpha_j$ ),  $\eta_i$  as a function of the condenser pressure, feed water temperature and gas temperatures T1 and T7. The method and programming have been developed at

Calculation and analysis of the ...

S/089/62/013/001/002/012 B102/B104

the Institut atomnoy energii im. I. V. Kurchatova (Institute of Atomic Energy imeni I. V. Kurchatov). There are 9 figures.

SUBMITTED: December 6, 1961

Fig. 1: schematic drawing of the vapor generator
Legend: 4HB -high-pressure circulation pump; 4HH -low-pressure circulation
pump

Fig. 2: temperature distribution in the vapor generator; T-coolant temperature, t - water or water vapor temperature (°C)

Card 3/8

KOCHENOV, I.S.; VOINOV, N.L.; YERSHOVA, N.N.

Calculation and analysis of the parameters of the thermodynamic cycle of an atomic power plant. Atom. energ. 13 no.1:38-46

J1 '62.

(Atomic power plants)

(MIRA 15:7)

SOV/137-57-1-1099

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1,p 142 (USSR)

AUTHOR: Voinov, N. P.

TITLE: Improving the Service Life of Engines by Means of Roll Burnishing

(Povysheniye dolgovechnosti dvigateley pri pomoshchi obkatki)

PERIODICAL: V sb.: Povysheniye dolgovechnosti mashin. Moscow, Mashgiz,

1956, pp 252-262

ABSTRACT: Rational roll burnishing (RB) [lapping] is an inexpensive and easily

accomplished means of increasing the durability of mechanisms. Studies of the process of RB, undertaken to select proper operating conditions and appropriate quality of lubricants, must be performed with the aid of the wear lines (WL) which are obtained as a result of plotting of a diagram of the wear as a function of the speed of RB and the quantity of metal removed from the friction surface (FS) In order to plot the WL's, oil samples (100-150 g) are taken from an operating engine at certain intervals and, at the same time, the amount of oil contained in the crankcase is measured. The dif-

ference in the quantity of Fe contained in the oil at different

Card 1/2 periods of time makes it possible to determine the degree of wear

SOV/137-57-1-1099

Improving the Service Life of Engines by Means of Roll Burnishing

during those periods. The operating conditions are chosen on the basis of a study of the nature of the WL's plotted on the basis of tests of several engines operating at different speeds. The process of RB is most effective if the number of revolutions is continuously increased. An addition of 5-6% of "sul'fofrezol" [sulfurous cutting lubricant] to the oil accelerates the wear during RB, thereby facilitating the process of lapping and assisting in the attainment of a surface with maximum wear resistance. RB of engines should be performed in such a manner that the longest stage of the process is carried out at the initial revolutions. Experiments demonstrated that RB performed in accordance with the method described reduces the wear of the cylinder-piston group of the M-11 engine by 30-35% and lowers the oil consumption by 30%.

R.B.

Card 2/2

VOINOV, N. P.; KONEV, B. P.; KITSKIY, B. P.

Toplivo i Smazka Otechestvennykh Legkovtkh Avtomobilei (Fuel and Oil for Fatherland Light Automobiles), State Scientific-Technical Publ. House of Petroleum and Ground-fuel Lit., Moscow-Leningrad, 1951.

### "APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860410013-7

VOINOV, N.P., kandidat tekhnicheskikh nauk, dotsent.

Effective running-in improves engine efficiency. Vest.
mash. 36 no.9:32-33 S '56.

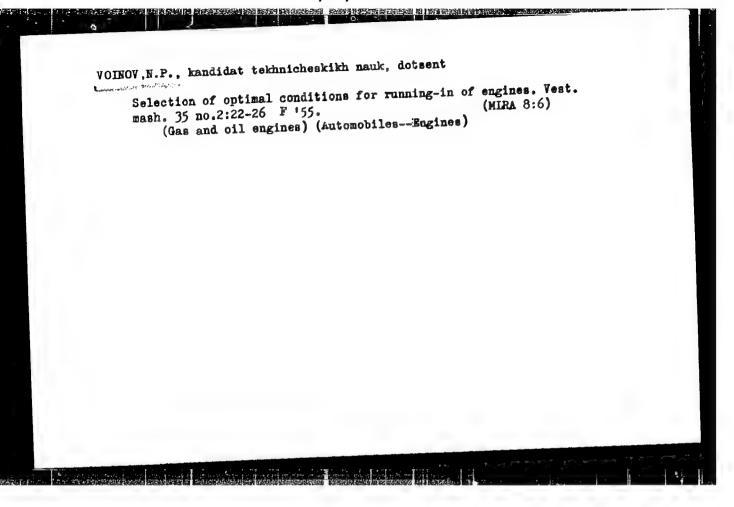
(Gas and oil engines)

VOIMOV, N. P., S. I. KORZINKIN, B. F. KONEV and others

Podbor smazochnykh masel dlia obkatki dvigatelei i mekhanizmov. Moskva, Gostoptekhizdat, (1950?) 84 p.

Selection of lubricants for running in engines and mechanisms.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.



VOINOV, N.P. USSR/ Engineering - Engines testing 1/1 · Jub. 128 - 5/23 Card ! Voinov, N. P. Authors Marie Committee of the f The selection of optimin conditions for engine break-in Title Periodical : Vest. mash. 2, 22 - 26, Feb 1955 ! A description is presented of a factory test run and break-in of automobile, tractor and aircraft engines, and technical data is given on Abstract

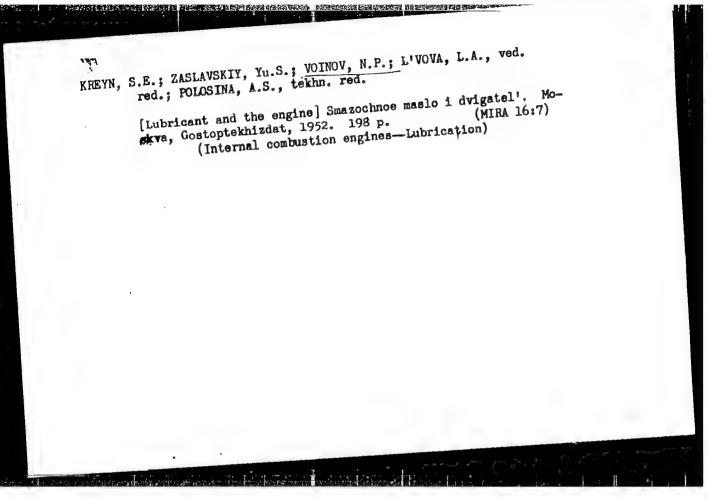
Institution:

Submitted:

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001860410013-7"

grades and types of oil, friction factors, break-in time, and types of

engines used in the above mentioned procedures. Tables; graphs.



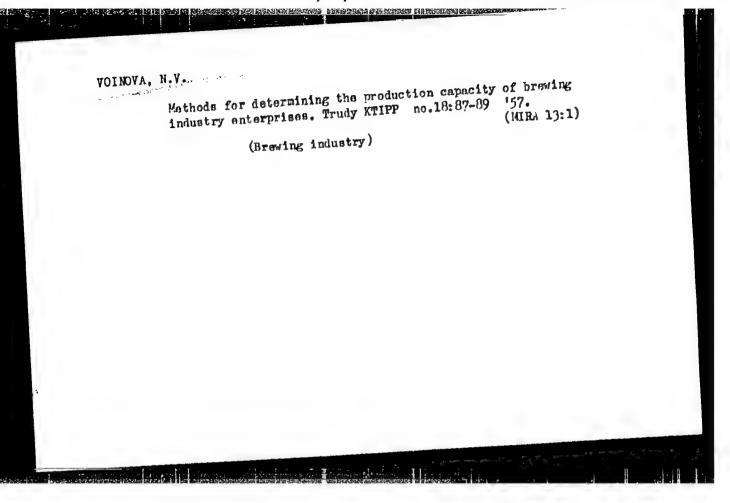
VOINOU, N.V., inshener.; GERARDI, G.V.

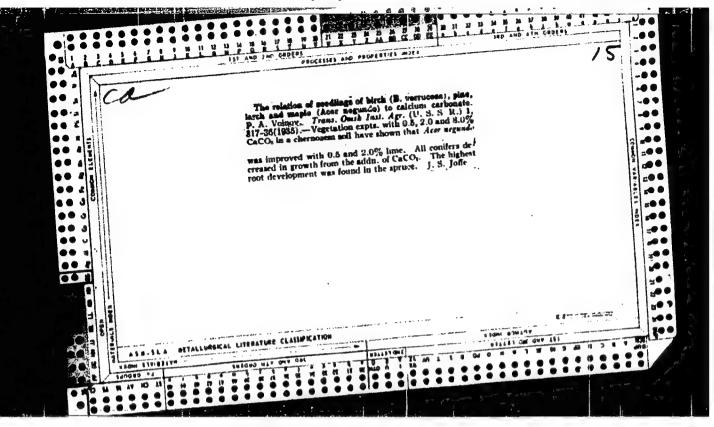
Roofs built of large panels. Biul. stroi, tekh. 14 no.3:46 Mr '57.

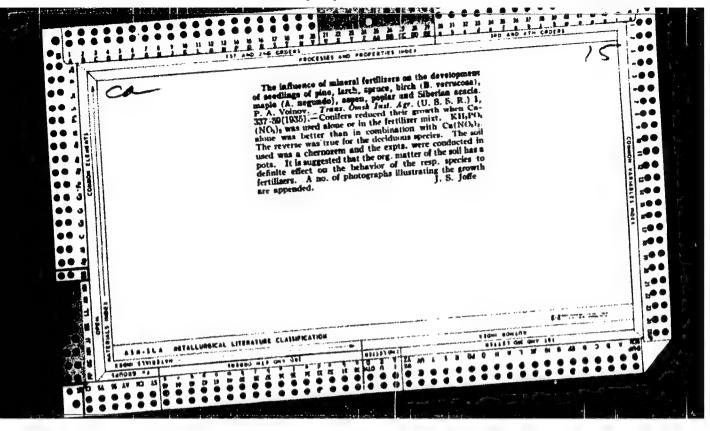
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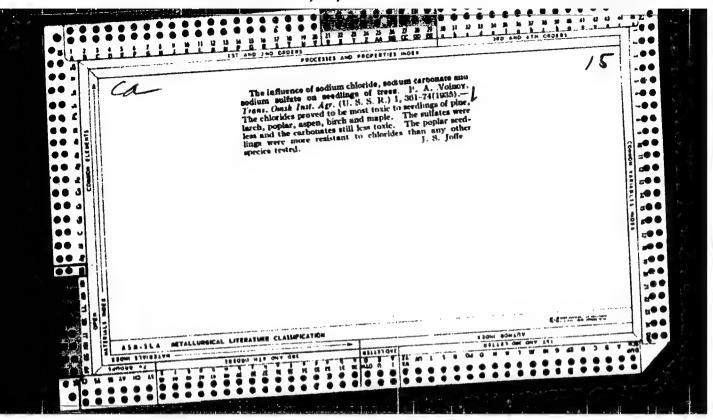
1. Chelyabinskiy filial Gosudarstvennogo instituta po proyektirovaniyu metallurgicheskikh zavodov.

(Roofs, Gonorete)









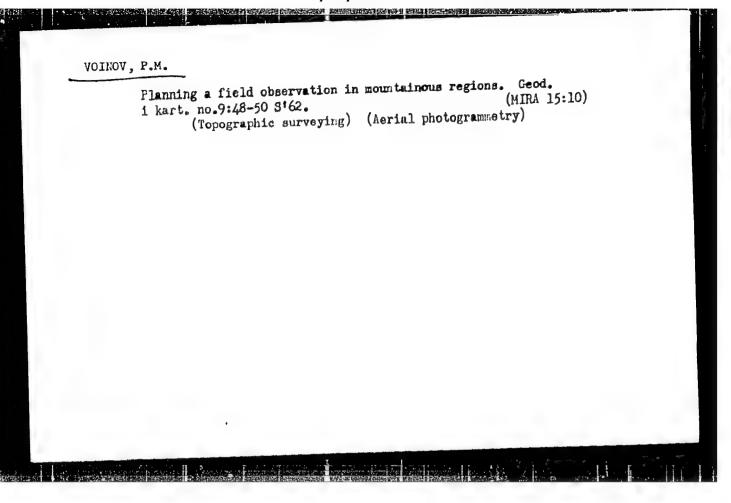
AFANAS YEVA, A.L., kand.biol.nauk; BAYMRTUYEV, A.A., kand.sel skokhozyaystvennykh nauk; nykh nauk; BAL CHUGOV, A.V., kand.sel skokhozyaystvennykh nauk; VOINOV, RA BELOZEROVA, N.A., agronom; BELOZOROV, A.T., kand.sel'skokhozyayetvennykh nauk; MAKSIMENKO, V.P., agronon; HERNIKOV, V.V., doktor sel'skokhozyaystvennykh nauk; BOGOHYAGKOV, S.T., kand.sel'skokhozyaystvennykh nauk; VOLYNETS, O.S., agronom; BCDRGV. M.S., kand.sel'skokhozyaystvennykh nauk; BOGOSIAVSKIY, V.P., kand.terinn.nauk; KHRUPPA, I.P., kard.tekhn.nauk; VERNER, A.R., doktor biol.nauk; VOZBUTSKAYA, A.Ye., kand.sel'skokhozyaystvennykh nauk; VOINOV, P.A., kand.sel'skokhozyaystvennykh nauk; VYSOKOS, G.P., kand.biol.nauk; GAIDIN, M.V., inzhenermekhanik; GERASIHOV, S.A., kand.tekhn.nauk; GORSHENIN, K.P., doktor sel'skokhozyaystvennykh nauk; YELENEV, A.V., inzhener-mekhanik; GERASKEVICH, S.V., mekhanik [deceased]; ZHARIKOVA, L.D., kand.sel'skokhozysystvennykh nauk; ZHEGALOV, I.S., kand.tekhn.nauk; ZIMIHA, Ye.A., agronom; BARANOV, V.V., kand. tekhn. nauk; PAVLOV, V.D.; IVANOV, V.K., kand.sel'skokhozyaystvennykh nauk; KAPIAN. S.M., kand.sel'skokhozyaystvennykh nauk; KATIN-YARTSEV, L.V., kand.sel'skokhozyaystvennykh nauk; KOPYRIN, V.I., doktor sel'skokhozyaystvennykh nauk; KOCHERGIN, A.Ye., kand.sel'skokhozyaystvennykh nauk; KOZHEVNIKOV, A.R., kand.sel'skokhozyaystvennykh nauk; KUZHETSOV, I.H., kand.sel'skokhozyaystvennykh nauk; LAMBIN, A.Z., doktor biol.nauk; LEOHT YEV, S.I., kand.sel'skokhozyaystvennykh nauk; MAYBORODA, N.H., kand.sel'skokhozyaystvennykh nauk; MAKAROVA, G.I., kond.sel'skokhozyaystvennykh nauk; MEL'NIKOV, G.A., inghener; ZHDANOV, B.A., kand.sel'skokhozyay-stvennykh nauk; MIKHAYLENKO, M.A., kand.sel'skokhozyaystvennykh nauk; MAGILEVTSEVA, N.A., kand.sel'skokhozyaystvennykh nauk;

(Continued on next card)

AFANAS'YKVA, A.L... (continued) Card 2.

MIKIFOROV, P.Ye., kard.sel'skokhozyaystvennykh nauk; MEMASHEV, M.I.,
lesovod; PERVUSHIMA, A.M., agronom; PLOTHIKOV, M.A., kard.biol.nauk;
L.G.; kard.sel'skokhozyaystvennykh nauk; PAVLOV, V.D., kard.tekhn.
L.G.; kard.sel'skokhozyaystvennykh nauk; GURCHENKO,
nauk; PRUTSKOVA, M.G., kard.sel'skokhozyaystvennykh nauk;
V.S., agronom; POPOVA, G.I., kard. sel'skokhozyaystvennykh nauk;
PORTYANKO, A.F., agronom; RUCHKIN, V.M., prof.; RUSHKOVSKIY, T.V.,
agronom; SAVITSKIY, M.S., kard.sel'skokhozyaystvennykh nauk; BOLDIN,
agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kard.
D.T., agronom; NESTEROVA, A.V., agronom; SERAFIMOVICH, L.B., kard.
tekhn.nauk; SMIRNOV, I.M., kard.sel'skokhozyaystvennykh nauk;
SHEBBRYANSKAYA, P.I., kard.tekhn.nauk; TOKHTUYNV, A.V., kard. sel'skokhozyaystvennykh nauk; FAL'KO, O.S., iznh.; FEDYUSHIN, A.V., doktor
biol.nauk; SHEVLYAGIN, A.I., kard.sel'skokhozyaystvennykh nauk;
YUFEROV, V.A., kard.sel'skokhozyaystvennykh nauk; YAKHTENFEL'D, P.A.,
kard.sel'skokhozyaystvennykh nauk; SEMENOVSKIY, A.A., red.; GOR'KOVA,
Z.D., tekhn.red.

[Handbook for Siberian agriculturists] Spravochnaia kniga agronoma Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1957. 964 p. (Siberia-Agriculture) (MIRA 11:2)



VOINOV. P. M.

Lyaskalya

Technology

On - New Method for Manufacturing Heat Insulating Tiles for Standard Houses.

Soviet Source: N: Lenin Banner, Petrozavodsk, 22 Mar. 47

Abstracted in USAF "Treasure Island" Report No. 32926, on file in Library of Congress, Air Information Division.

VOINOV, S., kand.veterinarnykh nauk; KARPCVICH, M., veterinarnyy
vrach SEVOST'YANOV, B.

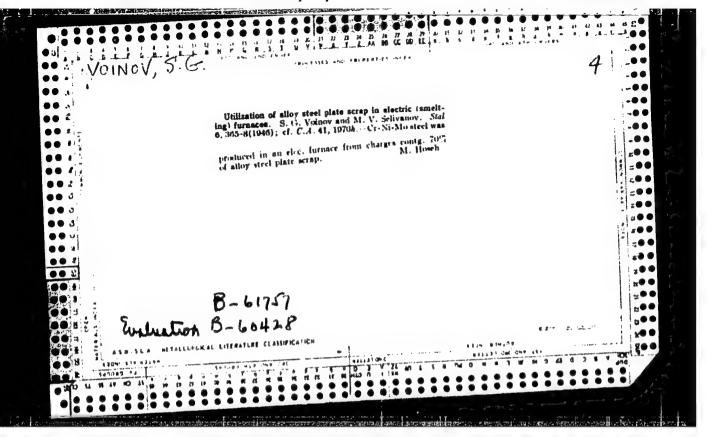
Rendering the blood of cattle infected by foot-and-mouth
disease harmless. Mias. ind. SSSR 31 no.4:52-53 '60.
(MIRA 14:7)

1. Gosudarstvennyy nauchno-kontrol'nyy institut vetpreparatov
(for Voinov, Karpcvich). 2. Vsesoyuznyy naucho-issledovatel'
skiy institut myasnoy promyshlemosti (for Sevost'yanov).
(Foot and-mouth disease)

VOINOV, S. G.

"New Method of Melting Steel in the Electric Furnace from Alloy Steel Scrap," Stal', No.6, pp. 19-20, 1946

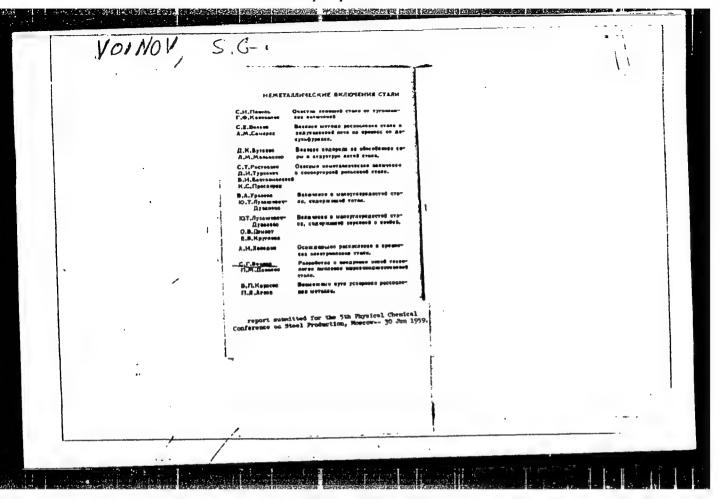
Evaluation B-60428



VISHNYAKOV, A.V., kand.tekhn.nauk, dotsent; VOINOV, S.G., kand.tekhn.nauk; DANILOV, P.H., inzh.

Changes in impurity inclusion in metals between furnace and mold. Izv.vys.ucheb.zav.; chern.met. no.6:47-53 Je '58. (MIRA 12:8)

1. Sihirskiy metallurgicheskiy institut, TSentral'nyy nauchnoissledovatel'skiy institut chernoy metallurgii i Kuznetskiy metallurgicheskiy kombinat. Rekomendovano kafedroy elektrometallurgii stali i ferrosplavov Sibirskogo metallurgicheskogo instituta. (Steel--Defects)



WOIMOV, S. G.

"Improvement of the Technology of Steel Melting in Electric Arc Furnaces." Sub
9 Oct 51, Inst of Metallurgy imeni A. A. Baykov, Acad Sci USSH
Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

| Non-metallic inclusions in ball-bearing steel. Stal' 15 no.1:46-53  (MIRA 8:5)  Ja '55.  1. TsNIIChM.  (Steel-Metallography) |
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Voinov, S.G. kandidat tekhnicheskikh nauk

Problem of technological improvements in the electric steel melting processes. Stal' 15 no.4: 329-333 Ap '55. (MLRA 8:6)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii. (Steel--Electrometallurgy)

S/0133/64/000/007/0599/0604

ACCESSION NR: AP4041866

AUTHOR: Voinov, S. G., Kosoy, L. F., Morozenskiy, A. I., Savel'yev, D. F., Shalimov, A. G., Kalinnikov, Ye. S., Shatunow, S. F., Kireyev, B. A., Okhapkin, S. I. Davy dova, L. N., Izmanova, T. A.

TITLE: Rollining of 100-ton open-hearth melts by liquid synthetic slag in the ladle

SOURCE: Stal', no. 7, 1964, 599-604

TOPIC TAGS: sicel manufacture, ore refining, alloy steel, carbon steel, open hearth melt refining, ladle refining, synthetic slag, liquid synthetic slag

ABSTRACT: The authors describe a technique for the ladle treatment of 100-ton openhearth melts by means of synthetic liquid slag under industrial conditions which make it possible to produce high-quality alloy and carbon steel, including ball-bearing steel, equal to electric steel in terms of the content of non-metallic admixtures, mechanical properties (along and across the fiber) and other criteria. Experiments were conducted by TsNIIChM with 60 melts from two 100-ton basic open-hearth furnaces operating with a hard charge by the scrap method and heated by mazut with steam sprinkling at a temperature of 200-300C and a pressure of 10-12 atmospheres. The synthetic slag was smelted in a redesigned 18-ton arc-type electric furnace (DST-12) with a special carbon vat lining.

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The slag was obtained by melting together industrial alumina and lumpy annealed lime. The electric power consumption required to smelt one ton of the synthetic slag was 1,495 ACCESSION NR: AF4041866 kilowatt-hours, corresponding to an additional expenditure of electric power of 56.8 kilowatt-nours, corresponding to an additional expenditure of electric power of 30.0 kilowatt-hour/ton of steel. Before releasing the melt into the ladle, the liquid synthetic kilowatt-nour/ton of steer. Defore releasing the mert into the fact, the inquid synthetic slag was poured off in the amount of 3-4% of the weight of the metal (the mean consumption of slag per ton of steel was 3.7%), after which, with as little delay as possible, the melt was released into the same ladle. Meanwhile, the oxidized furnace slag was removed from the metal in the sport of the spor from the metal in the spout of the open-hearth furnace by means of a special device described and illustrated schematically in the text. The mean temperature of the liquid described and illustrated schematically in the text. The mean temperature of the liquid synthetic slag in the furnace before slagging was 1,670-1,640C. Before the refinement of the steel the slag contained 40-41% A12O3, 54-56% CaO, 1.5-2.0% SiO2, 1-3% MgO and the steel the slag contained 40-41% A12O3, 54-56% CaO, 1.5-2.0% SiO2, AOKHNMA O. 2-0.4% FeO. In the industrial tests that were carried out, steels 30khGSA, 40khNMA, 40KhFA, 50KhFA, U7-8A and ShKh15 were smelted in 100-ton furnaces and teemed. The metal was held in the ladie 8-15 minutes before pouring. In order to provide a proper comparison of the test metal with conventional metal, 32 melts were made according to the conventional technology in 100-ton, 40-ton open-hearth and 18-ton arc furnaces. tests indicated that the refining of large open-hearth melts in the ladle by liquid synthetic slag involves no difficulties. The normal smelting procedure according to the new

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ACCESSION NR: AP4041866

technology provided a metal of the prescribed chemical composition. A high degree of desulfuration was achieved. The sulfur content in the metal so refined was reduced from 0.030-0.040 to 0.006-0.012%. Open-hearth ball-bearing steel ShKh15 refined by synthetic slag had a higher degree of purity with respect to non-metallic admixtures than the electric steel of Plant No. 1 and of other metallurgical plants. The quality of the open-hearth structural alloy and instrument-carbon steels, refined by the synthetic slag, was equal to that of electric steel, and was even superior to it in terms of plasticity and resiliency across the fiber. Experiments in the preparation of the synthetic slag in an arc-type electric furnace for the processing 10-ton open-hearth melts indicated that in order to obtain 1 ton of the liquid slag 1500 kw-hours of electric power is sufficient with a specific transformer power of 2000 kva per ton of hourly productivity of a slag-smelling furnace. The production of high peality open-hearth steel in 100-ton furnaces by the new method results in a considerable cost reduction in comparison with conventional electric steel. The results of the refine of 100-ton open-hearth melts by means of liquid synthetic slag putting this method into operation in the open-hearth shops of point to the advisabilit high-quality metallurg. ... plants having furnaces of 100- to 200-ton capacity. "A. M. Svistunov (Deceased), S. Motveychuk, Ye. N. Vasil'yev, A. S. Mikhaylov, I. F. Yefimov, A. A. Kuz'ında K. S. Obokmov, Yu. N. Gorbunov, V. G. Kuklev, N. I. Kazakova and others also took part in the work." Orig. art. has: 4 figures and 4 tables.

Card 3/4

## "APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001860410013-7

ACCESSION NR: AP4642366

ASSOCIATION: None

SUBMITTED: . 00

SUB CODE: MM

4/4

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ENCL:00

NO REF SOV: 003

OTHER: 000

GABUYEV, G.Kh.; YEL'TSOV, K.S.; SHUL'TE, Yu.A.; MIKHAYLOV, P.A.; GAREVSKIKH, I.A.; LEYBENZON, S.A.; TSIVIRKO, E.I.; MEDOVAR, B.I.; LATASH, Yu.V.; FRANTSOV, V.P.; PAKHOMOV, A.I.; KAGANOVSKIY, G.P.; VOINOV, S.G.; SHALIMOV, A.G.; KALINNIKOV, Ye.S.; SMOLYAKOV, V.P.; KOSOY, L.F.

Improving the quality of electric-slag-refined bearing steel. Stal' (MIRA 18:1) 24 no.7:640-642 J1 164.

l. Zavod "Dneprospetastal", Zaporozhskiy mashinostroitel nyy institut, Institut elektrosvarki im. Ye.O.Patona i TSentral nyy nauchno-issledovatel skiy institut chernoy metallurgii imeni I.P.Bardina.

LUBENETS, I.A.; ZHUKOV, D.G.; VOINOV, S.G.; SHALIMOV, A.G.; KOSOY, L.F.;

KALINNIKOV, Ye.S.; CHERNYAKOV, V.A.; YAFTSEV, M.A.; COLIKOV, Ye.S.;

MYSINA, G.Ye.; Prinimali uchastiye: KFYS, N.V.; PFGGV, 7.G.;

MEN'SHENIN, Ye.B.; BARNOVALOV, M.A.; SHIRER, G.B.; SHATALOV, M.I.;

MOLCHANOVA, A.A.; ANISIMOVA, M.Ye.

Refining steel with synthetic slag from large-capacity arc

furnaces. Stal' 25 no.3:232-235 Mr '65. (MIRA 18:4)

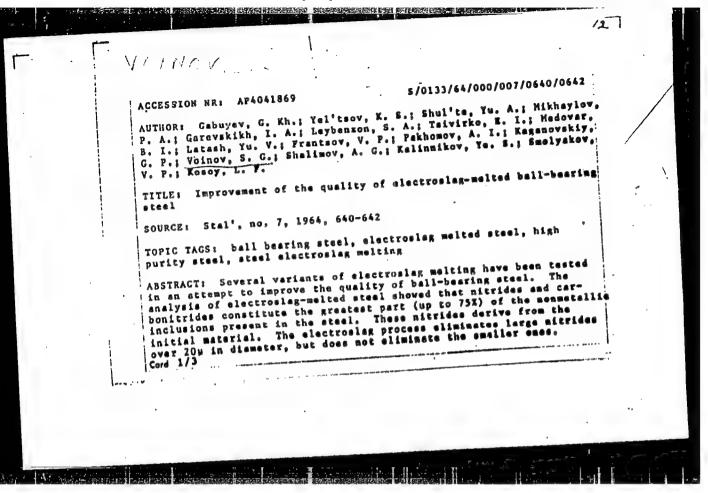
SHALIMOV, A.G., kand. tekhn. nauk; VOINOV, S.G., doktor tekhn. nauk;

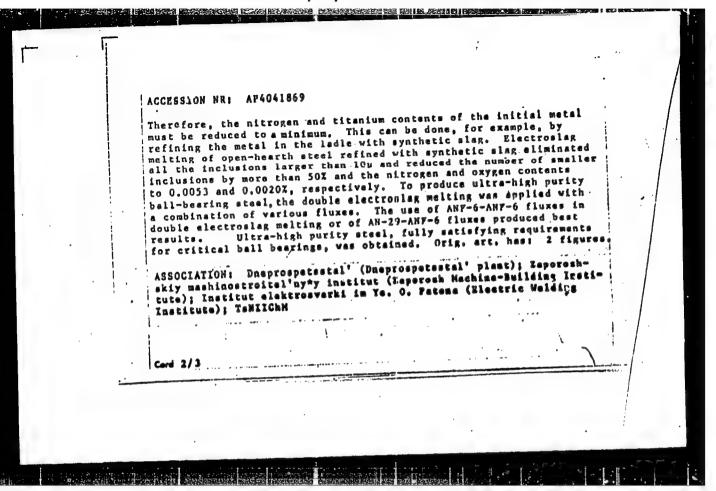
KOSOY, L.F.

Improving the quality of alloy steel by refining it with a
liqwid synthetic slag. Met. i gornorud. prom. no.4:16-19
J1-Ag '64.

VOINOV, S.G.; KOSOY, L.F.; MOROZENSKIY, A.I.; SAVEL'VEV, D.F.; SHALIMOV, A.G.;
KALINNIKOV, Ye.S.; SHATUNCV, S.F.; KIREYEV, B.A.; OKHAPKIN, S.I.;
DAYYDOVA, L.N.; IZMANOVA, T.A.

Refining a 100-ton open-hearth heat with a liquid synthetic slag
in the ladle. Stal' 24 no.7:599-604 Jl '64. (MIRA 18:1)





ZHUKOV, D.G.; KETS, N.V.; MEN'SHENIN, Ye.B.; PEGOV, V.G.; MOLCHANOVA, A.A.;
VOINCV, S.G., doktor tekhn. nauk, rukovoditel' raboty.

Treatment of electric steel with a liquid synthetic slag.

Met. 1 gornorud. prom. no.1:61-65 Ja-F '65. (MIRA 18:3)

L 12472-65 EWT(n)/EMA(d)/EMP(t)/EMP(z)/EMP(b) \$/013:1/65/000/003/0232/0235 ACCESSION NR: APSO08709

AUTHOR: Lubenets, I. A.; Zhukov, D. G.; Voinor, S. G.; Shalimov, A. G.; Kosoy, L. F.; Kalinnikov, Ye. S.; Chernyakov, V. A.; Tartedy, M. A.; Golikov, Ye. S.; Mysina, G. Ye

TITLE: Synthetic slag refining of steel from large-capacity arc ovens

SOURCE: Stal', no. 3, 1965, 232-245

TOPIC TAGS: steel refining, synthetic slag, ball bearing steel, chromium steel, low impurity steel, are oven steel

ABSTRACT: During the second half of 1963, one of the electrical steel-smelting enterprises started introducing the refining of steel by means of synthetic limealumina slag into industrial use. The present article reports on the preliminary findings concerning the efficiency of this new process. Tests were carried out with a slag-melting OKB-284 oven having an interior diameter of 5350 mm and a 4500 kVA transformer. The wall and cover were made of chromomagnesite while the tank was lined with carbon blocks; the smelting chamber had a diameter of 3000 mm and was 800 mm deep. All pertinent construction and operational data are given

Card 1/2

L 42972-65 ACCESSION NR: AP5008709

in considerable detail. Specifically, 1) the oven produced 2.5 metric tons/hr. of slag; 2) during production of ball-bearing and construction chromium steel, the slag consumption amounted to 2.8-5.0% of the mass of processed metal; 3) the oven consumed about 1420 kWh per metric ton of slag produced; 4) the shortened refining operation decreased the consumption of electrical energy by 30-40 kWh per metric ton of metal, which compensated fully for the energy requirements for the production of slag; and 5) the productivity of the large-capacity electrical ovens was increased by 10-15%. The new method markedly reduced (as shown in several tables presenting the results of incurity determinations) the amount of nonmetallic impurities and improved the plastic properties of the finished product. The technological procedures described should be able, in the future, to improve the quality of the above-mentioned special steels even more and reduce the impurity content even further. "In this work, carried out in conjunction with TSNIICHM, N. V. Keys, V. G. Pegov, Ya. B. Man'shenin, M. A. Barnovalov, G. E. Shirer, M. I. Shatalov, A. A. Molchanova, M. Ye. Anisimova, and others also took part." Orig. art. has: 5 tables.

ASSOCIATION: None

ENCL: 00

SUB CODE: HM

SUBMITTED: 00 NO REF SOV: 001

01HER: 000

Card 2/2 21

YOINOV, Semen Georgiyevich; SHALIMOV. Anatoliy Georgiyevich; KOSOY, Leonid Georgiyevich; KALINNIKOV, Yevgeniy Sergeyevich

NAMES OF STREET OF BUSINESS OF STREET STREET, STREET STREET, S

[Refining metals with synthetic slags] Rafinirovanie metallov sinteticheskimi shlakami. Moskva, Metallurgiia, 1964. 279 p. (MIRA 17:12)

VOINOV, S.C.

Mechanism of the formation and distribution of oxide inclusions in ball-bearing steel. Stal' 23 no.6:523-528 Je '63. (MIRA 16:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

VOINOV, S.G.; ELLEMENOV, Ye.S.; TOPIL'SKIY, P.V.; BORYOVA, O.S.;

Frinimal uneastiye: IOFF, Y.N.; CHARGEREDO, N.I.;

Indicate the making of limestone and alumina semifinished products for the preparation of synthetic slag.

Stal' 22 no.2:128-132 F '62.

(Slag)

(Electric furnaces)

# PHASE I BOOK EXPLOITATION

sov/6039

Voinov, Semen Georgiyevich, and Anatoliy Georgiyevich Shalimov

Sharikopodshipnikovaya stal' (Ball-Bearing Steel) Moscow, Metallurgizdat, 1962. 480 p. Errata slip inserted. 5200 copies printed.

Ed. of Publishing House: N. D. Gromov; Tech. Ed.: V. Mikhaylova.

This book is intended for engineering personnel of metallurgical and machine-building plants and members of scientific research and educational institutes. It may also be useful to advanced students.

COVERAGE: The book presents results of extensive research conducted with the aim of improving the technology of melting ball-bearing steel in basic electric-arc furnaces. Soviet and non-Soviet material on this subject is reviewed. Methods of melting ball-bearing steel in other melting facilities are discussed in detail. Requirements for steel and methods applied in metallurgical plants for controlling the quality of steel are explained. Considerable attention is given to the description of nonmetallic inclusions and to the effect of

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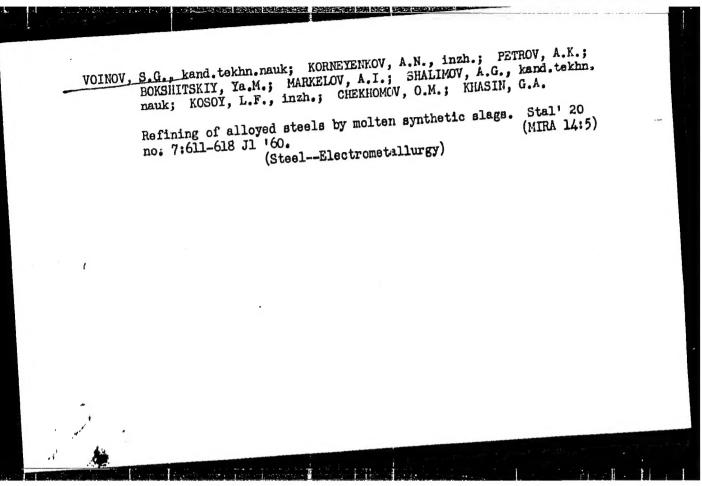
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| various factors on their content. The authors thank enginerations factors on their content. The authors thank enginerations are remolayer, A. I. Borodulin, P. S. Plekhanov, V. Ya. Mona Yermolayer, A. I. Teder, P. M. Danilov, A. K. Petrov, O. M. Glazov, L. I. Teder, P. M. Danilov, A. K. Petrov, O. M. Glazov, L. F. Kosoy, Ya. M. Bokshitskiy, T. E. Pravdina, Zhukov, L. F. Kosoy, Ya. M. Bokshitskiy, T. E. Pravdina, S. M. Yeremenko, and M. M. Shapiro for their assistance. 292 references, both Soviet and non-Soviet.  | C A Kiselevas   |
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| Atan of Rell-Bearing Steel   | conditions 9    |
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| 3. Keduliemone   | - Steel         |
| 3. Requirements for medical and all the Quality of Ball-Bearin Ch. II. Methods of Controlling the Quality of Ball-Bearin 1. Inspection of the surface, dimensions, and shape of the of rolled stock  | a cross sec- 60 |
| Card 2/8 /   |                 |

VOINOV, S.G.; KOSOY, L.F.; SHUMOV, M.M.; SHALIMOV, A.G.; CHEKHOMOV, O.M.; ANDREYEV, T.B.; AFANAS'YEV, S.G.; KALINNIKOV, Ye.S.; Prinimali uchastiye: KORNEYENKOV, A.N.; GURSKIY. G.V.; BOKSHITSKIY, Ya.M.; PETROV, A.K.; MOKHIR, Ye.D.; KOLYASNIKOVA, R.I.; KHASIN, G.A.; DANILIN, V.P.; PLEKHANOV, P.S.; MAZÚN, A.I.; MARKIN, A.A.

Refining converter steel in the ladle with liquid synthetic slag.

Stel! 22 no.3:226-232 Mr !62. (MIRA 15:3)

(Steel-Metallurgy)



VOINOV, Semen Georgiyevich; SHALIMOV, Anatoliy Georgiyevich; GROMOV,
N.D., red. izd-va; MIKHAYLOVA, V., tekhn. red.

[Steel for ball bearings] Sharikopodshipnikovaia stal'. Moskva, Metallurgizdat, 1962. 480 p. (MIRA 15:4)

(Ball bearings) (Steel)

#### CIA-RDP86-00513R001860410013-7 "APPROVED FOR RELEASE: 03/14/2001 CONTROL OF THE PROPERTY OF THE

s/133/62/coo/cc3/cot/cc6

Voinov. S. G., Kosoy, L. F., Shumov, M. M., Shalimov, A. G., AUTHORS:

Chekhomov, O. M., Andreyev, T. B., Afanas'yev, S. G., Kalinnikov,

Ye. S.

Refining converter steel with liquid synthetic slag in the ladle TITLE:

PERIODICAL: Stal', no. 3, 1962, 226 - 232

The good results obtained in refining electric steels with Equid lime-aluminous slag led to pilot-plant tests with converter steels, using the same method. 111 heats were smelted in a basic 8-ton converter; 45 of them were refined in the ladle with liquid synthetic slags of the following composition (in %):

Card 1/5

| ter steel wi              | th  |  |  |              | S/1<br>A05          | 33/62/00<br>4/1127  | 00/003/001/009  | j.          |
|---------------------------|---|--|--|--------------|---------------------|---|---|-------------|
| Number                    | CaO   | VJ <sup>2</sup> 03   | sio <sub>2</sub>   | MgO          | Fe0                 | cr <sub>2</sub> 03  | •   |             |
| 6                         | 55.25<br>53.04  | 42.73<br>41.47   | 1.90<br>3.85   | 0.79         | 0.90                | 0.30  |   |             |
| 3<br>N3) 5                | 52.49<br>49.82  | 42.45<br>35.94   | 2.02<br>5.06   | 0.78<br>0.82 | 0.90<br>7.69        | 0.9 <sup>L</sup>  |   |             |
|                           | 53.10<br>51.37  | 1:14.22<br>38.34   | 2.19<br>4.52   | 0.75<br>0.93 | 0.35<br>4.05        | 0.23<br>0.23  |   |             |
|                           | 53.58<br>52.51  | 40.92  | 2.06<br>3.61   | 0.69         | $\frac{0.70}{1.75}$ | $\frac{0.15}{0.13}$   |   |             |
| composition patment). The |   |  |  | P733         | 3000 0              | 4 trared  | I I TIME OFFICE   |             |
|                           | of heats  6  3 N3)  steel)  cable, 14 eel)  composition patment). The | of heats  6 55.25  53.04  3 52.49  N3) 5 49.82  steel) 7 51.37  , cable, 14 53.58  eel)  composition prior to atment). The slag we | of heats  6 55.35 42.73 53.04 41.47  3 52.49 42.45 49.82 35.94  steel) 7 53.10 44.22 51.37 38.34  , cable, 14 53.58 44.08 52.51 44.08 eel) composition prior to metal teatment). The slag was melter | of heats  6  | of heats  6         | of heats $6 \frac{55.25}{53.04} \frac{42.73}{41.47} \frac{1.90}{3.85} \frac{0.79}{0.80} \frac{0.82}{0.90}$ $\frac{52.49}{49.82} \frac{42.45}{35.94} \frac{2.02}{5.06} \frac{0.78}{0.82} \frac{0.90}{7.69}$ $steel) 7 \frac{53.10}{51.37} \frac{44.22}{33.34} \frac{2.19}{4.52} \frac{0.75}{0.93} \frac{0.55}{4.05}$ $steel) \frac{53.58}{40.92} \frac{44.08}{3.61} \frac{2.06}{0.72} \frac{0.69}{1.75}$ $steel) \frac{53.58}{52.51} \frac{44.08}{40.92} \frac{2.06}{3.61} \frac{0.69}{0.72} \frac{0.70}{1.75}$ | of heats $ \begin{array}{ccccccccccccccccccccccccccccccccccc$ | of heats  6 |